

Comprehensive Kidney Disease Panels

- I. Genetic testing for kidney disease via a comprehensive kidney disease panel is considered **medically necessary** when:
 - A. The member has chronic kidney disease with an undetermined cause after undergoing standard-of-care workup studies (e.g., history and physical examination, biochemical testing, renal imaging, or renal biopsy), **AND**
 1. The member meets at least one of the following:
 - a) Onset of chronic kidney disease under 50 years of age, **OR**
 - b) One or more first-degree relatives with chronic kidney disease, **OR**
 - c) Consanguineous family history, **OR**
 - d) Cystic renal disease, **OR**
 - e) Congenital nephropathy, **OR**
 - f) Syndromic/multisystem features, **OR**
 - g) There is a possibility of identifying a condition amenable to targeted treatment, **OR**
 - h) The member is being wait-listed for kidney transplant, **AND**
 - (1) A close relative is considering kidney donation to the member, **OR**
 - B. The member is asymptomatic, **AND**
 1. The member is being considered as a kidney donor, **AND**
 2. The member has at least one first-degree relative with kidney disease suggestive of autosomal dominant or X-linked inheritance, **AND**

3. No causative mutation has been established yet for the kidney disease seen in the family.
- II. Genetic testing for kidney disease via a comprehensive kidney disease panel is considered **investigational** for all other indications.

DEFINITIONS

1. **Close relatives** include first, second, and third degree blood relatives on the same side of the family:
 - a. **First-degree relatives** are parents, siblings, and children
 - b. **Second-degree relatives** are grandparents, aunts, uncles, nieces, nephews, grandchildren, and half siblings
 - c. **Third-degree relatives** are great grandparents, great aunts, great uncles, great grandchildren, and first cousins

REFERENCES

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2. KDIGO 2024 Clinical Practice Guideline for the Evaluation and Management of Chronic Kidney Disease. *Kidney International* (2024). Volume 105 (Suppl 4S),

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3. Franceschini N, Feldman DL, Berg JS, et al. Advancing Genetic Testing in Kidney Diseases: Report From a National Kidney Foundation Working Group. Am J Kidney Dis. Published online July 19, 2024. doi:10.1053/j.ajkd.2024.05.010